SUBJECT INDEX

Vol. 134C, Nos. 1–4

Acetyl cholinesterase, 109
Adult, 501
Adults, 311
Airway, 91
Alcohol, 397
Alkaline phosphatase, 109
Aluminum toxicity, 319
Aminoguanidine, 451
δ-aminolevulinic acid dehydratase, 319
Aminotransferases, 451
Amphibian, 259, 465
Androgen receptor, 215
Androgen receptor antagonist, 215
Antarctic, 79
Antifungal protein, 235
Antioxidant, 79, 397
Apoptosis, 417
Aromatase, 215
Aromatase inhibitor, 215
Ascorbic acid, 397
ATPase, 109
Azathioprine, 451

Bax, 417
Behavioural flexibility, 139
Benzodiazepines, 457
Bile, 241
Bioconcentration, 57
Biological rhythms, 385
Biotranformation, 473
Bird, 11
Birds, 25
Bivalve, 79
Bivalve molluscs, 57
Bivalves, 189
BKME, 241
B-lymphocyte, 291
Body ions, 491
Bovine, 91, 169
Bovine mammary epithelial BME-UV1 cells, 417
Brain, 267
Brain regions, 319
Bronchi, 91
Brush border membrane, 329
Bursal anti-steroidogenic peptide, 291
Butyrylcholine, 123
Butyrylcholinesterase, 123

Cadmium, 227, 501
Calpain, 439
Capercaillie, 69
Carbonyl, 199
Cardiac muscle, 199
Caspase-3, 417
Catalase, 57
Cattle, 169
Cd–MTs, 131
cDNA, 131, 513
Cephalopods, 139
Ceruloplasmin, 157
Characterization, 235
Chelation therapy, 319
Chemo-tactile processing, 139
Chick, 267
Chicken, 25
Chlorinated furanone, 353
Chlorobiphenyls, 57
3-Chloro-4-(dichloromethyl)-5-hydroxy-2[5*H*]-furanone (MX), 353
Circadian variations, 385
Circular dichroism, 431
Citric acid, 319
Colonic apical membrane, 329
Columba livia, 69
Conjugation, 169
Copper, 101, 157, 311
Copper binding proteins, 131
Copper-binding protein, 101
Coronary perfusion pressure, 375
Coturnix coturnix japonica, 69
Creatine kinase, 207
Cu–MTs, 131
Cypermethrin, 109
Cytochrome P450, 69
Cytochrome P450 2E1 (CYP2E1), 353
Cytotoxicity, 207, 227

Danio rerio, 365
Datura stramonium, 109
Deer, 169
Deltistes luxatus, 491
Detoxification, 473, 501
Diabetes mellitus, 521
Diffusion distance, 491
Digestive gland, 473
DNA, 109
DNA strand breaks, 227
Drinking water disinfection by-products, 353
Duck, 25
Dye affinity chromatography, 431

Eggs, 311
Elephant, 123
ELISA, 251
Embryo, 11, 267
Embryos, 45
Endocrine disrupters, 365
Endocrine disruption, 45, 241, 251
Endothelin-1, 35
Energy charge, 403
Energy metabolism, 403
Enzyme induction, 473
Epithelium, 91
Epoxide hydrolase, 169
ERG, 175, 457
Erythrocytes, 403
Estradiol-17β binding sites, 189
Estradiol-17β synthesis, 189
Estrogen, 251
Estrogen sensitive period, 215
Estrogenic, 45
Ethanol, 267
Euglena gracilis, 227
Exercise training, 199
Exhaustive exercise, 199
Exon shuffling, 131

Fathead minnow, 251
Feeding preferences, 473
Female, 501
Fibroblast growth factor, 341
Fish, 45, 207
Flow cytometry, 227
Flunixin, 25
Fluorescence polarization, 199
Frog, 175, 457

GABA, 175
Ganglion cells, 175
Gene, 131
6-P-Gluconate dehydrogenase, 57
Glucose, 521
Glutathione, 57, 353, 397 ,451
Glutathione (GSH), 147
Glutathione reductase, 397
Glutathione *S*-transferase, 169
Glutathione *S*-transferase (GST), 147
Glycine, 521
Goats, 385
Gonadal sex differentiation, 215
Grey partridge, 69
Growth, 491
Guinea pigs, 397
Guppy, 45

H2 receptor, 91
H3 receptor, 91
Hatchlings, 311
Heart, 35
Heat stress, 79
HEDTA, 319
Heparan sulfate, 341
Hepatotoxicity, 451
Herring, 207
Histamine, 91
Histology, 45
Histopathology, 45, 491
HPLC, 123
HPLC technique, 403
Hydrogen peroxide, 281
α-Hydroxyethyl radical, 281
Hymenoptera, 513
Hypercholesterolemia, 521
Hyperlipidemia, 521
Hypertriacylglycerolemia, 521
Hypertrophy, 35

doi:10.1016/S1532-0456(03)00069-3

Immunocytochemistry, 465
Immunoglobulin G, 291
Impala, 123
Invertebrate, 131
Insect digestion, 481
Iron, 267
Isoenzyme, 207
Isolation, 235
Isometric contractions, 375

Japanese quail, 69

Kow, 57

Labeo rohita, 109
Laccase, 513
Lactate dehydrogenase, 109
Langendorff perfused heart, 375
Larva, 501
Laser scanning cytometry, 417
Laternula elliptica, 79
Lead ions, 403
Learning, 139
Legume, 235
Leukocyte, 303
Lipid peroxidation, 329, 397
Lipidperoxides, 451
Littorina brevicula, 101
Liver, 241, 267
Loligo forbesi, 311

m-Calpain, 417
Male, 501
Manipulative behaviour, 139
Medaka, 353
Mediterranean, 147
Meloxicam, 25
Membrane fluidity, 199
Membranes, 267
Mercury, 147, 375
Metal distribution, 319
metal-binding protein, 101
Metallothionein, 101, 131, 157 ,311
Methylazoxymethanol acetate, 353
Mitochondria, 79, 227
Mitogen, 303
Mitogenesis, 35
Mucociliary activity, 465
Muscle, 341, 439
Muskoxen, 157
Mya arenaria, 189

N-acetylcysteine, 451
Naloxone, 259
L-NAME, 139
Neuropeptide, 259
Newt, 259
Nitric oxide, 139, 281
Nitric oxide synthase, 281
Nociception, 259
Non-enzymatic glycation, 521
Non-protein thiol, 147

OFF responses, 175
ON responses, 175
Opioid, 259
Organic xenobiotics, 501
Organotins, 189
Ostrich, 25
Ovary, 45
Ovotestis, 365
Oxidative stress, 79, 227, 319, 451

Palatine nerve, 465
Parasitoid, 513
Penaeid, 431
2,3,3′,4,4′-Pentachlorobiphenyl, 11
Perdix perdix, 69
Peripheral blood leukocytes, 303
Peroxidation, 267
Pharmacokinetics, 25
Phase II metabolism, 169
Phasianus colchicus, 69
Phospholipids, 329
Picrotoxin, 175
Pigeon, 25, 69
Pimpla hypochondriaca, 513
Pisum sativum, 235
Plasma aldosterone concentration, 385
Plasma electrolyte concentrationsl, 385
Posidonia oceanica, 147
PRA, 385
Pregnant, 385
Proliferation, 291, 303
Protein degradation, 439
Proteinase, 431
Proteinase inhibitor, 481
Proteoglycan, 341
Pupa, 501
Purine nucleotide, 403

RAA system, 385
Rana pipiens, 465
Rat, 319
Rat myocardium, 375
Rat, 199
Reactive oxygen species, 79, 227
Receptor regulation, 35
Red flour beetle, 481
Reptile, 303
Retina, 175, 457
Retinol, 11
Retinol esterification, 11
Retinyl palmitate, 11
Retinyl palmitate hydrolysis, 11
RFamides, 259
Ring-necked pheasant, 69
RNA, 109

Satellite cell, 341
Secondary lamella, 491
Selenium, 397
Sepia officinalis, 139
Sex ratio, 189
Sex reversal, 215, 365
Sex steroid binding protein, 241
Sex steroids, 215
Sexual maturation, 189
Shrimp immunity, 431
Skeletal muscle, 199
Sodium salicylate, 25
Spermatozoa, 207
Spleen, 303
Squid, 311
Steroid hydroxylase, 473
Substance P-like immunoreactivity, 465
Succinate dehydrogenase, 109
Succinylcholine, 123
Sugar snap pea, 235
Superoxide, 281, 329
Superoxide dismutase, 57
Survival, 491

Tachykinin, 465
Tail-flick, 259
Taurine, 521
Teleost fish, 241
Testis, 45
Tetani, 375
2,3,3′,4-Tetrachlorobiphenyl, 11
Tetrao urogallus, 69
TGF-β_1, 417
Thymus, 303
Trace minerals, 157
Trachea, 91
Translation-inhibitory, 235
Trehalase, 513
Tribolium castaneum, 481
Tributyltin, 207
Trigeminal ganglion, 465
Turkey, 25, 341
Turtle, 303

Ungulate, 157

VDAC-1, 417
Venom, 513
Vitellins, 189
Vitellogenin, 251, 365
vpr, 513

Wasp, 513

Zebrafish, 365
Zinc, 311, 501

AUTHOR INDEX

Vol. 134C, Nos. 1–4

Abele, D., 79
Ahmad, M., 451
Al-Shabanah, O.A., 451
Alhama, J., 57
Alvarado-Vásquez, N., 521
Alvarez, A.I., 199
Amezcua, O., 57
Andersen, L., 365
Ankley, G.T., 251

Babczyńska, A., 501
Baert, K., 25
Balasubramanian, K.A., 329
Baranowska-Bosiacka, I., 403
Barboza, P.S., 157
Berghman, L.R., 291
Bergman, H.L., 491
Berríos, A., 465
Biegniewska, A., 207
Bikhazi, A.B., 35
Bitar, K.M., 35
Bjerregaard, P., 45
Blaise, C., 189
Blake, J.E., 157
Boily, M.H., 11
Brouwer, M.H., 353
Brzin, J., 481
Byrd, J.A., 291

Cabral de Oliveira, A.C., 199
Caldwell, D.J., 291
Caldwell, D.Y., 291
Carvajal-Sandoval, G., 521
Cerón, E., 521
Chichery, M.P., 139
Chichery, R., 139
Chinapen, S., 465
Conyers, C.M., 513
Coughlin, D.J., 267
Coy, C.S., 341
Craig, S., 311
Cunha Silva, C.E., 375

Das, B.Kumar., 109
De Backer, P., 25
De la Fuente, M., 303
De Schamphelaere, K.A.C., 529
DeAngelo, A.B., 353
Desmecht, D., 91
Douville, M., 189

El-Sabban, M.E., 35
Estevez, E., 199

Ferrat, L., 147
Flora, S.J.S., 319
Forsberg, N.E., 439
Fournie, J.W., 353
Fraser-Thomson, E.S., 267
Fujimoto, M., 259

Gado, A., 451
Gagné, F., 189
Gajkowska, B., 417
Galesa, K., 481
Gauthier-Clerc, S., 189
Gessbo, A., 365
Geter, D.R., 353
Gnassia-Barelli, M., 147
Godlewski, M.M., 417
Gollas-Galván, T., 31
Grzyb, K., 207
Gupta, M., 319

Halm, M.P., 139
Hansen, J.A., 491
Hargis, B.M., 291
Hartzer, K., 481
Hawkins, W.E., 353
Heijerick, D.G., 529
Heise, K., 79
Henmi, K., 227
Hernández, C.J., 465
Hewitt, L.M., 241
Hlynczak, A.J., 403
Hohtola, E., 69
Holbech, H., 365
Honkanen, H., 69

Ichikawa, Y., 215
Indira, M., 397
Ioannides, C., 169

Janssen, C.R., 529
Jaroudi, W.A., 35
Jolly, S., 91
Jurjus, A.R., 35

Kanetoh, T., 259
Kannan, G.M., 319
Keen, J.N., 513
Khalifeh, A.M., 35
Kinnberg, K., 45
Kolek, O., 417
Korsgaard, B., 45
Korte, J.J., 251
Kramarz, P., 501
Kramer, K.J., 481
Kuhajek, J.M., 473
Kupenova, P., 175

Lease, H.M., 491
Lee, I.-S., 101
Lenarcic, B., 481
Lieb, B.,131
Liu, X., 341
Liukkonen-Anttila, T., 69
López-Barea, J., 57

MacNicoll, A.D., 513
Marenco, J.L., 57
McElroy, A.P., 291
McFarland, D.C., 341
McMaster, M.E., 241
Mehta, A., 319
Meyer, J.S., 491
Miller, R.R., 267
Minakata, H., 259
Mitchell, G., 123
Mitova, L., 175
Miura, I., 215
Molina, A.J., 199
Moore, R.W., 291
Morgan, T.D., 481
Motyl, T., 417
Mukherjee, S.C., 109
Muneoka, Y., 259
Muñoz, F.J., 303
Mylchreest, E., 251

Ndayibagira, A., 11
Ng, T.B., 235
Noe, E.C., 267
Norrgren, L., 365

Ogawa, K., 227
Ohtani, H., 215
Ohtsubo, K., 481
Oppert, B., 481
Overnell, J., 311

Palenick, A., 267
Park, J.-S., 101
Parkinson, N.M., 513
Pelkonen, O., 69
Pellerin, J., 189
Pelletier, E., 189
Peltokangas, P., 69
Perez, A.C., 199
Pergent-Martini, C., 147
Pesall, J.E., 341
Petersen, G.I., 365
Pitts, N.I., 123
Popova, E., 175
Popova, E., 281
Pörtner, H.O., 79
Prabhu, R., 329
Prieto, J.G., 199
Pryce-Hobby, A.C., 241
Puntarulo, S., 79
Purintrapiban, J., 439

Raza, M., 451
Rodríguez-Ariza, A., 57
Rodríguez-Ortega, M.J., 147
Rombach, E.P., 157
Rosen, G.M., 281
Rychlowski, M., 207
Ryu, S.-K., 101

Saadeddine, R.E., 35
Sasaki, I., 259

doi:10.1016/S1532-0456(03)00070-X

Satsangi, K., 319
Sauer, M.J., 169
Schlenk, D., 473
Sivapathasundaram, S., 169
Sivaram, A.G., 397
Skorkowski, E.F., 207
Skotnicka, E., 385
Smith, I., 513
Snajdr, S., 251
Sotelo-Mundo, R.R., 431
Souza de Assis, G.P., 375
Spear, P.A., 11
Stefanon, I., 375
Sugikawa, T., 259
Suresh, M.V., 397
Suzuki, T., 227

Takabatake, I., 259
Tsai, P., 281
Turk, V., 481

Van Der Kraak, G., 241
Vanda, B., 521
Vargas-Albores, F., 431
Vargas-Requena, C., 431
Vassallo, D.V., 375
Velleman, S.G., 341
Viglino, L., 189
Vitanova, L., 175
Voorhees, E.B., 267

Wang, M.-C., 439
Watanabe, M., 227
Weaver, R.J., 513
Wilczek, G., 501

Xiao, Y.-y., 439

Ye, X.Y., 235
Yepiz-Plascencia, G., 431
Yoza, K., 481

Zamudio, P., 521
Zeng, C., 341
Zenteno, E., 521